Appendix A-1
Waste Rock Areas

)EP METEORIC WATER MOBILITY TEST ABORATORY NUMBER G066-07L NVOICE NUMBER G0214L NATE March 27, 1992 'age 2 of 3 Nample I.D.: Waste Rock Characterization W-3

EST PROCEDURE

aterial, all passing 2 inches identified by the client as Waste Rock W-3 arch '92 was air dried and split to obtain a test sample of 5,116.6 grams. he sample was placed in an 8 inch column for extraction by an artificial ixiviant of pH 6.12 made from reagent grade water and nitric acid. A olution application rate of .48 liters per hour was used to circulate 11,580 illiliters of the lixiviant through the material. Solution recovery at 24 ours was 96.4% with a saturation volume of 210 ml's. The recovered olution was preserved for testing as required for each type of analysis to e conducted.

separate split of the test material was wet screened to obtain the ercentage of material passing a 200 mesh U.S. standard screen. Test results re tabulated as follows:

mple: Waste Rock Charaterization W-3
st Sample Weight: 5,116.6 grams
plution Volume applied: 11,580 milliliters
nitial pH: 6.12 Lixiviant
inal pH: 5.87 Effluent
each Time: 24 hours Leach Method: Column
aturation Volume: 210 milliliters
ercent material passing 200 mesh: 8.92%

METHOD

lkalinity: Bicarbonate Total	17	mg/l mg/l	EPA 310.0
ılfate:	908	mg/l	EPA 375.4
ıloride:	13.75	mg/l	EPA 325.3
.trate:	4.55*	mg/l	EPA 350.3
.uoride:	2.50*		EPA 340.2
A.D. Cyanide:	1,522	mg/l	EPA 160.2
	N/A	mg/l	ASTM D2036-89

* Indicates analytical constituent analyzed by another laboratory.

DEP METEORIC WATER MOBILITY TEST LABORATORY NUMBER G066-07L INVOICE NUMBER G0214L DATE March 27, 1992

Page 3 of 3

Sample I.D.: Waste Rock Characterization W-3

AMENDED PAGE

32 ELEMENT ANALYSIS Sample I.D.: Waste Rock Characterization W-3											
Aluminum	0.069	Gallium	-0.050	Scandium	-0.050						
Antimony	-0.050*	Iron	0.143	Selenium	-0.005						
Arsenic	-0.05*	Lead	-0,025	Silver	-0.05*						
Barium	0.099	Lithium	0.24	Sodium	14.36						
eryllium	0.004	Magnesium	31.65	Strontium	1.171						
Bismuth	-0.025	Manganese	1.095	Thallium	-0.040						
Cadmium	-0.005	Mercury	0.00294*	Tin	-0.080						
Calcium	246*	Molybdenum	0.010	Titanium	0.038						
Chromium	0.109	Nickel	0.085	Vanadium	0.008						
Cobalt	0.123	Phosphorus	-0.100	Zinc	0.607						
Copper	19.41	Potassium	7.400								

EPA METHOD: 200 SERIES *Indicates analytical constituent analyzed by another laboratory.

spectfully Submitted

ryne M. Colwell

ieral Manager



MINERALS PROCESSING AND ENVIRONMENTAL LABORATORIES, INC.

STATIC TEST

FOR

Arimetco, Inc./Copper Tek Corporation 102 Burch Drive Yerington, NV 89447

ATTN: Bill Sifford

Laboratory Number G066-07A Invoice Number G0214A

February 4, 1993

FINAL REPORT

Static Test Laboratory Number G066-07A Invoice Number G0214A Date February 4, 1993 Page 2 of 2

FINAL REPORT

Sample I.D.: Waste Ro	ock Characteriz	ation W-3
		Units of Measure
Total Sulfur (as S)	0.19	8
Pyritic Sulfur (as S)	0.05	ફ
Sulfur, Unidentified (as S)	-0.01	*
Sulfate, Sulfur (%)	0.18	*
APP/Peroxide (as S)	-0.01	*
Total Sulfur	5.9	(Tons CaC03/Kt)
Pyritic Sulfur	1.6	(Tons CaC03/Kt)
APP/Peroxide	-0.3	(Tons CaC03/Kt)
Acid Neutralizing Potential	6.9	(Tons CaC03/Kt)

Wayne M. Colwell General Manager

MPEL 1855 DEMING WAY - SPARKS, NEVADA 89431 - TELEPHONE (702) 331-3600

Case Number: R01S07 Site:

PPER MINE, YERINGTON 00299B, 00299C

SDG: Date:

11/07/00

Analysis: Metals Matrix: Solids

C 1 N																		
Sample No.	N/A			N/A			N/A			N/A		-	N/A			N/A		
Sample I.D.	T-1			T-2			T-3			T-4			T-5			T-6		
Lab Sample I.D.	AB28925			AB28926			AB28927			AB28928			AB28929			l		
Date of Collection	10/19/00			10/19/00			10/19/00			10/19/00			10/19/00			AB28930		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			10/19/00		
Analyte	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	To	Com	Result	Τ.	T	mg/Kg		
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Ausenick I Warker			1334	NATIONAL PROPERTY.		200	PARTICIPATE AND	100			S ISRAI		20 U	0.00	P LINE STREET	20 U		10.00
Barium	90			40	-	Wantesca,5 C	60	THE ST	3755441	60	N INCOME.	- ST. 1275	70	S			製菓	A)II
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Cohair a Manag	110/11	蒙			922	ME		100		STORES E		SALES		HE COLUMN	5745 SAN	14	-	
Copper	1100			5600	300	AND SOUR	2400	STEEL	Carrier scale	4300	a latery	de la la contractión	1000		MESS N	DESIZER SEALES	MARK	
irby 6 4 4 4 4	20000	整置	1	A TOMAN ELEP		CORP.	COLUMN TO SERVICE			4500	1900		1000		Sale of the Party	2500		
Lead	5	J	В	4			8	N SEC.	STREET, STREET,	10	1000		BOX KANDELS RESERVE					2000
Magnesium	Joann -	1883		Description of the			PARTITION		EUNE			THE PARTY.	4	132000	775-774-05V	4		
Manganese	50	MATERIA	(Lead Month	100	1947/18	STATE OF THE PARTY	100	2011272	AND DESCRIPTION OF	90				183	DE M	1474000 (AV	1000	
Mercury/field(200)	Similar man	15/18				THE REAL PROPERTY.		422	E TOTAL	NOTE AND DESCRIPTION OF THE PERSON OF THE PE	1000	AT STREET, ST	50	2 20 20 20	E CONTROL OF	220		
Nickel	10 U	40.00	NH DANKER	10	223	STATE OF THE PARTY.	9	T T	A	10		AW C	(100)				透影	
Potassium as Jahr						MARK!				10	e lancar	SECONOMIA	5	J	A	20		
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Com - Comments re	for to the service		بــــا			<u> </u>				77			99		l I	97	1 - 1	

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - The parameter was analyzed for, but was not detected; The associated value is the sample quantitation limit, adjusted for dilution, if any.

I - The associated value is an estimated quantity.

All results are in mg/Kg dry weight.

Filename:

ise Number: 1, 507 PPER MINE, YERINGTON :e: Analysis: Metals)G: 00299B, 00299C Matrix: Solids ite: 11/07/00 mple No. N/A N/A N/A N/A mple I.D. T-7 N/A T-8 N/A T-9 T-10 b Sample I.D. AJJ28931 T-11 AB28932 AB28933 SALT-1 te of Collection AB28934 10/19/00 AB28935 10/19/00 AB28936 10/19/00 10/19/00 mg/Kg 10/19/00 10/19/00 ing/Kg mg/Kg alyte mg/Kg Result mg/Kg Q Com Result Q Com Result mg/Kg Q Com Result minum to the Q Com 6600 Result Q Com Result Q Com 20 20 enicky 20 20 620 yllium h UJB lmium 3 ciumw. 77 2 2 33000024 34 U omium 13 230 680 570 2200 2300 6700 3100 10 1000 J AE 27003 J B 230 30 900 170 cury×200 100 1700 14 160 20 100 J AF U JA 1 4 0 flore 2 JF 10 U J BF 23000 600 15000 50 JA J B 4200 idium 34 11 26 53 The maintains of the sound 35 U 74 61 100 60

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